

3COM® IP TELECOMMUTING MODULE

Extend secure business communications over the Internet with 3Com teleworker solutions



OVERVIEW

The 3Com® IP Telecommuting Module delivers the benefits of the 3Com Convergence Applications Suite to users connecting to the enterprise network from remote locations. With the module, home office workers, traveling employees and other authorized users can securely access their company IP telephony system over the Internet, taking advantage of a wealth of communications applications utilizing the Session Initiation Protocol (SIP).

Because SIP dynamic port allocation is not recognized by conventional firewalls, the only way to enable these firewalls for SIP traffic is to open the ports that will be used by that traffic. Unfortunately, this action exposes the enterprise to security risks. To mitigate these vulnerabilities, the 3Com IP Telecommuting Module provides SIP-aware security by first monitoring SIP signaling protocols, such as SIP registration and session establishment, as they arrive over the Internet. The module then assigns and manages the appropriate dynamic addresses by performing SIP proxy and registrar functions. Because the registrar contains the private IP addresses of users inside the network, an existing firewall is able to relay SIP signaling to the proper destinations through its UDP or TCP ports.

KEY BENEFITS

ENABLE SECURE INTERNET ACCESS TO BUSINESS NETWORKS

The module provides access to corporate SIP-based IP communications systems from remote locations over the Internet while protecting other enterprise applications from intruders. It augments existing firewalls by specifically handling SIP-established IP media sessions while leaving the firewalls to handle all other network traffic. Internal addresses are concealed from the public Internet, but SIP clients inside the firewall can be reached by public IP addresses.

CONNECT FROM BEHIND REMOTE INTERNET GATEWAYS

The module allows SIP-based communications to be established among networks using Network Address Translations (NAT) without disrupting the NAT infrastructure. The module manages SIP messages to enable transparent communications between different networks connecting via the Internet.



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KEY BENEFITS (CONTINUED)

EASILY INTEGRATE WITH NETWORK INFRASTRUCTURE

Because the module is implemented at the enterprise firewall, users at remote locations do not need special hardware or additional software to gain enterprise network access.

CONFIGURE TO MATCH BUSINESS NEEDS

The IP Telecommuting Module can be configured in a variety of ways, including connected to the firewall at the DMZ or connected to the Internet and network as a standalone device. In a DMZ configuration all traffic passes through the firewall using static UDP and TCP ports opened in the firewall between

the Internet and the module and between the module and the enterprise network. SIP clients in the enterprise are configured with the module as their outgoing proxy. The firewall continues to control security, but all SIP traffic is routed to the network through the module.

In a standalone configuration the module may be connected to both the enterprise network and the Internet, operating entirely on its own, in parallel with an existing firewall and handling only SIP signaling and media streams. All other traffic passes through the firewall. This setup requires no configuration changes to the existing firewall, but SIP clients on the enterprise network must be configured with the IP Telecommuting Module as their outgoing proxy.

FEATURE HIGHLIGHTS

Based on a security-hardened version of Linux

Works in conjunction with existing firewalls

Receives SIP signaling/requests directly from the Internet without exposing network devices to Internet threats

Transparently supports NAT

Requires no special hardware or software at the user end

Protects and extends the 3Com Convergence Applications Suite

SPECIFICATIONS

PLATFORM

IBM 3250M2 X-Series server running security-hardened Linux

INTERFACES

2 10/100 Mbps

Certifications

CE, FCC, UL

PERFORMANCE

SIP Connections Setup (SIP+RTP): 0.15 s

RTP data delay (10 Mbps/100 Mbps): 0.19/0.08 ms

CAPACITY

Concurrent RTP sessions: 600 (max.)

Recommended number of registered SIP users: 6,000 (max.)

SIP FUNCTIONALITY

SIP proxy, registrar and traffic in and out without extra proxy, SIP traffic to private IP addresses (NAT/PAT), authentication of SIP users from external RADIUS

REMOTE SIP CONNECTIVITY

Far-end NAT traversal (also symmetric NAT) Management
SNMP, Internal log to hard disk, Syslog, email events

ORDERING INFORMATION

PRODUCT DESCRIPTION

3COM SKU

3Com IP Telecommuting Module Basic (includes IBM 3250M2 X-Series server, telecommuting software and 10 SIP Traversal licenses)	3CRVH702596C
3Com IP Telecommuting Module 10 SIP Traversal Licenses (incremental licenses; require purchase of 3CRVH702596C)	3C0VS73009
3Com IP Telecommuting Module 25 SIP Traversal Licenses (incremental licenses; require purchase of 3CRVH702596C)	3C0VS73109

Additional information on 3Com convergence solutions is available at www.3com.com/voip

Visit www.3com.com for more information about 3Com solutions.

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